Government of
Saskatchewan

Interim Annual Report
1982

Saskatchewan Health
Vital Statistics

3475 Albert Street
Regina, Saskatchewan
S4S 6X6

Department of Health

To the Honourable C. I. McIntosh
Lieutenant Governor of Saskatchewan

May It Please Your Honour:

I have the honour to present herewith, for your consideration, the Interim Report on Saskatchewan Vital Statistics for the calendar year 1982.

Respectfully submitted,

Graham Taylor
Minister of Health

Department of Health

To the Honourable Graham Taylor
Minister of Health

Sir:

I have the honour to forward herewith the Interim Report on Saskatchewan Vital Statistics for the calendar year 1982.

This interim report presents a concise record of those vital events which occurred in Saskatchewan during the calendar year 1982.

The Final Vital Statistics Annual Report will be published following the Department of Health's receipt of additional information from Statistics Canada in Ottawa. For this reason, the data presented in this Vital Statistics Interim Report may not be reconciled with the information which will be presented in the Final Vital Statistics Annual Report.

Respectfully submitted,

K. J. Fyke
Deputy Minister of Health

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Terms and Definitions

A summary of symbols, definitions, and the method of computing rates used in this report are given below.

Definitions

Population	- This report contains intercensal estimates for 1971-80. The 1982 population figure is 981,400 and is a post censal estimate. This report also includes previously published June 1 intercensal estimates for 1921-71.
Live births	- Infants born alive, i.e., excluding stillbirths.
Stillbirths	- Unless otherwise indicated, foetal deaths of 28 or more weeks' gestation.
Deaths	- Excludes stillbirths.
Infant deaths	- Deaths under 1 year of age.
Neonatal deaths	- Deaths under 28 days (4 weeks) of age.
Perinatal deaths	- Foetal deaths of 20 or more weeks' gestation plus infant deaths under 7 days (1 week) of age.
Natural increase	- Excess of births over deaths.

Rates (unless otherwise indicated, computed as follows)

Live births	: per 1,000 population
Stillbirths	: per 1,000 live births
Infant	: per 1,000 live births

Neonatal	: per 1,000 live births
Perinatal	: per 1,000 live births and stillbirths

Causes of death

All causes	: per 100,000 population
Infant	: per 1,000 live births
Marriages	: per 1,000 population
Divorces	: per 100,000 population
Natural increase:	: per 1,000 population

Notes

1. Causes of death are classified according to the 9th (1975) Revision of the International Classification of Diseases, Injuries and Causes of Death, which was put into effect on January 1, 1979.

Introduction

The Vital Statistics Interim Report presents a concise record of those vital events which occurred in Saskatchewan during the calendar year 1982. The Interim Report has been prepared in response to the requirements contained in the Tabling of Documents Act (1973). The present methods utilized in the collection of data for the Vital Statistics Annual Report do not permit the tabling of the Annual Report within the time frame established by this legislation. The Vital Statistics Annual Report will be published following the Department of Health's receipt of the necessary information from Statistics Canada in Ottawa.

The Vital Statistics Interim Report - 1982 records vital events by place of occurrence for 1982 (vital events which occurred in Saskatchewan in 1982). It includes for example, births to Saskatchewan residents who were in the province at the time of giving birth and residents of other provinces (or countries) who were in Saskatchewan at the time of giving birth. The data in this report are based on original registration forms and do not include amendments. The Vital Statistics Annual Report, on the other hand, records vital events by place of residence (vital events involving Saskatchewan residents whether or not the resident was in the province at the time of the event) and include amended information. The vital events recorded in this report for years previous to 1981 are by place of residence.

Table 1. Summary of Vital Statistics, Saskatchewan, 1976-1982

Item	1976	1977	1978	1979	1980	1981*	1982*
Population (000's)	921	935+	944+	953+	961+	968	981
Live births	15,969	16,547	16,551	16,944	17,057	17,209+	17,759
Rate‡	17.3	17.7	17.5	17.8+	17.7+	17.8+	18.1
Deaths	7,809	7,594	7,749	7,369	7,651+	7,523+	8,173
Rate‡	8.5	8.1	8.2	7.7	8.0+	7.8+	8.3
Natural increase	8,160	8,953	8,802+	9,575	9,406+	9,686+	9,586
Rate‡	8.9	9.6	9.3	10.0	9.8+	10.0	9.8
Infant deaths	229	249	236	194	193	203+	181
Rate**	14.3	15.0	14.3	11.4	11.3	11.8+	10.2
Neonatal deaths	139	156	151	121	102+	112+	110
Rate**	8.7	9.4	9.1	7.1	6.0+	6.5+	6.2
Perinatal deaths							
Based on 20+ weeks gestation period for stillbirths	269	295	274	242	223	229	231
Rate++	16.7	17.7	16.4	14.2	12.9	13.2+	12.9
Based on 28+ weeks gestation period for stillbirths	234	258	234	212	186+	196+	191
Rate++	14.5	15.5	14.1	12.4	10.8+	11.3+	10.7
Stillbirths							
20+ weeks gestation	151	163	139	138	130+	138	139
Rate**	9.5	9.9	8.4	8.1	7.6+	8.0	7.8
28+ weeks gestation	116	126	99	108	91+	104	99
Rate**	7.3	7.6	6.0	6.4	5.3+	6.0	5.6
Marriages	7,563	7,238	7,139	7,269	7,561	7,325	7,491
Rate‡	8.2	7.7	7.6+	7.6	7.9+	7.6+	7.6
Divorces and annulments***	1,211	1,463	1,358	1,488	1,829	1,905	1,819

* Preliminary figures; see Introduction, p. 3.

\+ Revised figure.

‡ Rate per 1,000 population.

** Rate per 1,000 live births.

++ Rate per 1,000 total births (live births and stillbirths).

*** See Section F Divorces, page 12.

A. Population

1. The historical trend

The estimated population of 981,400 for 1982 is an increase of 1.4 per cent over the 1981 census population of 968,313.

Table 2. The Historical Trend in Saskatchewan Population

Year	Population (000's)
1931	922
1941	896
1951	832
1961	925
1971	926
1976	921
1977	935+
1978	944+
1979	953+
1980	961+
1981	968+
1982	981*

+ Revised figures.

* Statistics Canada Intercensal Estimate.

2. The percentage distribution of the total population

During the past 30 years, the proportion of older people (65 years of age and over) has been increasing in Canada as a whole and in Saskatchewan. In Saskatchewan, however, the proportion of persons 65 years of age and over is greater than in Canada as a whole (12.2 percent and 9.9 percent respectively).

Table 3. Distribution of Total Population, Saskatchewan, 1982 (000's)

Age group	Canada		Saskatchewan	
	Number	Per cent	Number	Per cent
Total	24,603.2	100.0	981.4	100.0
0-19	7,710.7	31.3	332.6	33.9
20-44	9,758.5	39.7	346.1	35.3
45-64	4,703.3	19.1	183.3	18.7
65+	2,430.7	9.9	119.4	12.2

Table 4. Percentage Distribution by Sex, Saskatchewan, for Selected Years

Year	Male	Female	Males per 100 females
1921	54.6	45.4	120
1931	54.2	45.8	119
1941	53.3	46.7	114
1951	52.2	47.8	109
1961	51.8	48.2	108
1971	50.8	49.2	103
1976	50.4	49.6	102
1981	50.2	49.8	101
1982	50.2	49.8	101

B. Births

1. Live births

During the year 1982 a total of 17,759 live births occurred in the Province of Saskatchewan. This total includes births to Saskatchewan mothers residing in the Province of Saskatchewan at the time of giving birth and those births occurring to mothers who normally reside outside the province but who were in Saskatchewan at the time of giving birth.

The total of 17,759 live births represents a birth rate of 18.1 live births per 1,000 population, slightly higher than last year's birth rate.

The 1981 live birth rates for Saskatchewan, for Canada, and for the provinces are shown below for comparison.

Table 5. Live Birth Rates per 1,000 Population, Canada and Provinces, 1981

Province	Rate
Canada	15.3
Newfoundland	17.8
Prince Edward Island	15.5
Nova Scotia	14.3
New Brunswick	15.1
Quebec	14.8
Ontario	14.2
Manitoba	15.7
Saskatchewan	17.8
Alberta	19.1
British Columbia	15.1

2. Stillbirths

During the year 1982 a total of 139 stillbirths occurred in the province. The definition of occurrence is given in the introduction. The 139 stillbirths occurred after 20 or more weeks gestation; 99 of the stillbirths occurred after 28 or more weeks gestation. These two totals represent rates of 7.8 and 5.6 stillbirths per 1,000 live births, respectively.

C. Deaths

During the year 1982 a total of 8,173 deaths occurred within the Province of Saskatchewan. This represents a crude death rate of 8.3 deaths per 1,000 population, slightly higher than the crude death rate experienced in 1981.

The 1981 crude death rates for Saskatchewan, for Canada, and for the provinces are shown in the table below for comparison.

Table 6. Crude Death Rates per 1,000 Population, Canada and Provinces, 1981

Province	Rate
Canada	7.0
Newfoundland	5.7
Prince Edward Island	8.1
Nova Scotia	8.2
New Brunswick	7.4
Quebec	6.6
Ontario	7.3
Manitoba	8.4
Saskatchewan	7.8
Alberta	5.7
British Columbia	7.2

Table 7. Age Specific Death Rates per 1,000 Population, [illegible]atchewan, 1969-1981

Year	All ages	Age group					
		Under 5	5-14	15-24	25-44	45-64	65+
1969	7.8	5.0	0.4	1.1	1.8	7.6	53.9
1970	7.9	5.2	0.4	1.1	1.9	7.4	53.8
1971	8.0	4.9	0.4	1.1	1.7	7.3	53.4
1972	8.3	4.6	0.5	1.5	1.9	7.6	53.4
1973	8.5	4.3	0.4	1.4	1.5	7.6	54.6
1974	8.7	5.2	0.5	1.4	1.8	7.4	55.1
1975	8.5	4.6	0.4	1.4	1.7	7.5	53.0
1976	8.5	3.8	0.4	1.4	1.8	8.0	52.5
1977	8.1	4.0	0.4	1.6	1.6	7.0	50.3
1978	8.2	4.0	0.5	1.3	1.6	7.3	50.2
1979	7.7	3.2	0.3	1.4	1.6	7.1	46.3
1980	8.0	3.0	0.3	1.2	1.5	7.2	48.1
1981	7.8	3.1	0.4	1.2	1.4	7.1	46.1

Table 8.

NUMBER OF DEATHS BY CAUSE
OCCURRING IN SASKATCHEWAN IN 1982

CAUSE OF DEATH	DEATHS	PERCENT OF DEATHS	CRUDE RATE*
ALL CAUSES OF DEATH	8173	100.0	832.8
01 INTESTINAL INFECTIOUS DISEASES	3	0.0	0.3
02 TUBERCULOSIS	2	0.0	0.2
03 OTHER BACTERIAL DISEASES	25	0.3	2.5
04 VIRAL DISEASES	13	0.2	1.3
07 OTHER INFECTIOUS, PARASITIC DISEASES	9	0.1	0.9
08 M N OF LIP, ORAL CAVITY, PHARYNX	26	0.3	2.6
09 M N OF DIGESTIVE ORGANS, PERITONEUM	530	6.5	54.0
10 M N OF RESPIRATORY & RELATED ORGANS	402	4.9	41.0
11 M N OF BONE, SKIN, BREAST	173	2.1	17.6
12 M.N. OF GENITOURINARY ORGANS	323	4.0	32.9
13 M N OF OTHER & UNSPECIFIED SITES	137	1.7	14.0
14 M N OF LYMPH & HAEMOPOIETIC TISSUE	184	2.3	18.7
15 BENIGN NEOPLASM	5	0.1	0.5
17 OTHER & UNSPECIFIED NEOPLASM	16	0.2	1.6
18 ENDOCRINE & METABOLIC DISEASES	170	2.1	17.3
19 NUTRITIONAL DEFICIENCIES	11	0.1	1.1
20 DIS OF BLOOD/FORMING ORGANS	33	0.4	3.4
21 MENTAL DISORDERS	70	0.9	7.1
22 DISEASES OF THE NERVOUS SYSTEM	107	1.3	10.9
25 RHEUMATIC FEVER/HEART DISEASE	23	0.3	2.3
26 HYPERTENSIVE DISEASE	84	1.0	8.6
27 ISCHAEMIC HEART DISEASE	2082	25.5	212.1
28 PULMONARY & OTHER HEART DISEASE	532	6.5	54.2
29 CEREBROVASCULAR DISEASE	730	8.9	74.4
30 OTHER DISEASES OF CIRCULATORY SYSTEM	270	3.3	27.5
31 DISEASES OF UPPER RESPIRATORY TRACT	1	0.0	0.1
32 OTHER DISEASES OF RESPIRATORY SYSTEM	762	9.3	77.6
34 OTHER PARTS OF DIGESTIVE SYSTEM	332	4.1	33.8
35 DISEASES OF URINARY SYSTEM	106	1.3	10.8
36 DISEASES OF MALE GENITAL ORGANS	5	0.1	0.5
37 DISEASES OF FEMALE GENITAL ORGANS	1	0.0	0.1
42 DISEASES OF SKIN	5	0.1	0.5
43 MUSCULOSKELETAL & CONNECTIVE TISSUE	32	0.4	3.3
44 CONGENITAL ANOMALIES	60	0.7	6.1
45 CONDITIONS IN PERINATAL PERIOD	78	1.0	7.9
46 SYMPTOMS & ILL-DEFINED CONDITIONS	72	0.9	7.3
E47 TRANSPORT ACCIDENTS	275	3.4	28.0
E48 ACCIDENTAL POISONING	27	0.3	2.8
E49 MISADVENTURES DURING MEDICAL CARE	5	0.1	0.5
E50 ACCIDENTAL FALLS	84	1.0	8.6
E51 ACCIDENTS CAUSED BY FIRES & FLAMES	36	0.4	3.7
E52 OTHER ACCIDENTS, LATE EFFECTS	105	1.3	10.7
E53 EFFECTS OF DRUGS AND MEDICAITON	2	0.0	0.2
E54 SUICIDE AND SELF-INFLICTED INJURY	171	2.1	17.4
E55 HOMICIDE & INTENTIONAL INJURY	34	0.4	3.5
E56 OTHER VIOLENCE	20	0.2	2.0

*Rate per 1,000 population.
Population Base Statistics Canada

Accidents and Violence

During the year 1982 a total of 534 deaths due to accidents occurred in the Province of Saskatchewan. This represents a rate of 54.4 deaths by accident per 100,000 population in 1982 as compared to a rate of 53.4 deaths by accident per 100,000 population in 1981.

The number of suicides which occurred in Saskatchewan during 1982 was 171, a rate of 17.4 suicides per 100,000 population, up from the 1981 number of 168.

There were 34 homicides in Saskatchewan in 1982, an increase from the 1981 number of 29 homicides.

D. Natural Increase in Population

In Saskatchewan from 1972-1974 the natural increase exceeded the net increase in population indicating net emigration from the province. In 1982 the natural increase was 9,586 and the estimated actual increase was 13,087 giving rates per 1,000 population of 9.8 and 13.3 respectively. This indicates a net immigration into Saskatchewan.

Table 9. Natural Increase and Actual Increase, Saskatchewan, 1972-1982*

Year	Population	Live births	Deaths	Natural increase		Est.actual increase	
				Number	Rate per 1,000 pop	Number	Rate per 1,000 pop.
1972	914,000	15,473	7,590	7,883	8.6	-12,242	-13.4
1973	904,500	14,806	7,646	7,160	7.9	- 9,500	-10.5
1974	899,700	15,118	7,814	7,304	8.1	- 4,800	- 5.3
1975	907,400	15,265	7,672	7,593	8.4	7,700	8.5
1976	921,325	15,969	7,809	8,160	8.9	13,925	15.1
1977	934,600+	16,547	7,594	8,953	9.6	13,275+	14.2+
1978	943,500+	16,551+	7,749	8,802+	9.3	8,900+	9.4+
1979	952,500+	16,944+	7,369+	9,575+	10.0+	9,000+	9.4+
1980	961,100+	17,057+	7,651+	9,406+	9.8	8,600+	8.9+
1981	968,313+	17,209+	7,523+	9,686+	10.0	7,213+	7.4+
1982	981,400	17,759	8,173	9,586	9.8	13,087	13.3

*See footnotes in Table 1.

+Revised figure.

E. Marriages

During the year 1982 a total of 7,491 marriages occurred in Saskatchewan. This total represents a rate of 7.6 marriages per 1,000 population. Marriage rates for Canada, the provinces, and Saskatchewan for 1981 are given below for comparison.

Table 10. Marriage Rates per 1,000 Population, Canada and Provinces, 1981

Province	Rate
Canada	7.8
Newfoundland	6.6
Prince Edward Island	6.9
Nova Scotia	7.8
New Brunswick	7.3
Quebec	6.4
Ontario	8.1
Manitoba	7.9
Saskatchewan	7.6
Alberta	9.7
British Columbia	9.0

F. Divorces

In 1982 a total of 1,819 divorces and annulments were registered under the Vital Statistics Act in Saskatchewan at the time of publication. This does not represent the total number of divorce petitions filed in 1982 since some petitions are not yet finalized.

G. Life Expectancy

A life expectancy table is, in effect, the history of mortality of 100,000 male babies and of 100,000 female babies born at the same time. Life expectancy figures provide a graphic picture of the extent to which the saving of lives has gradually prolonged the average expectation of life and are a fairly good reflection of the general health and survival conditions at the time of their compilation.

According to the Saskatchewan life table compiled on the basis of the 1976 census, the life expectancy at birth reached an all time peak for females, 78.64 years, and for males, 71.13 years. The gain in life expectancy is greater in females. A sharp rise in the probability of death begins at age 56 for males and at 65 for females. The decrease in life expectancy is greater for males than for females.

Table 11. Life Expectancy, Saskatchewan, 1941, 1966, 1971, 1976

Age	Life expectancy				Gain or loss in life expectancy		
	1941	1966	1971	1976	1966 over 1941	1971 over 1966	1976 over 1971
	Males						
At birth	65.43	70.09	70.50	71.13	4.66	0.41	0.63
20	51.28	53.14	53.40	53.47	1.86	0.26	0.07
40	33.32	34.88	35.15	35.24	1.56	0.27	0.09
60	16.82	18.08	18.49	18.54	1.26	0.41	0.05
80	5.76	6.39	6.87	6.73	0.63	0.48	-0.14
	Females						
At birth	68.19	76.33	77.36	78.64	8.14	1.03	1.28
20	53.08	58.67	59.41	60.51	5.59	0.74	1.10
40	34.96	39.49	40.32	41.43	4.53	0.83	1.11
60	18.26	21.57	22.46	23.55	3.31	0.89	1.09
80	6.38	7.41	7.94	9.03	1.03	0.53	1.09

Note: Source of figures for 1941: Life Tables for Canada and Regions, 1941 and 1931, D.B.S. Ottawa 1947. These figures have been calculated for the prairie provinces. The figures for 1966 and 1971 were calculated for Saskatchewan by the Department of Health. The figures for 1976 were taken from the Statistics Canada publication, Life Tables, Canada and Provinces, 1975-1977.

H. Adoptions

There were 843 adoptions registered in Saskatchewan during 1982. In 1981 there were 772 adoptions, indicating an increase this year. The total of 843 adoptions registered includes out-of-province adoptions of persons born in Saskatchewan as well as adoptions in Saskatchewan of persons born elsewhere.

I. Legal Changes of Name

During 1982 a total of 1,021 legal changes of name were registered in Saskatchewan. This represents a decrease over the 1,067 changes of name registered in 1981. The total of 1,021 does not reflect the number of persons who changed their name as each application may affect more than one person and in some cases, an entire family.